

# ON-SITE HDPE PIPE MANUFACTURING

A MOBILE FACTORY SOLUTION FOR MEGA INFRASTRUCTURE PROJECTS



 **HEBEISH**  
GROUP

 **POLYGRANDE**

## About Hebeish Group

Hebeish Group is a family-owned business established in 1964 by Abel Messih Hebeish. Over the decades, the group has grown into a leading supplier in thermoplastic piping solutions, with over 25 years of experience in the field.

As one of the pioneers in introducing HDPE piping systems to the Egyptian market, Hebeish Group today offers a full range of solutions including thermoplastic pipes and fittings, manholes, tanks, and welding equipment, serving applications in pressure systems, sewerage and drainage networks, and cable protection.

With a deep-rooted commitment to quality, innovation, and reliability, Hebeish Group remains a trusted partner for infrastructure and utility projects across Egypt and beyond.

## Vision

To enhance the quality of life across Egypt and North Africa by delivering advanced infrastructure solutions that improve potable water systems, wastewater treatment, and telecommunication networks.

## Mission

To deliver durable, efficient thermoplastic piping solutions backed by decades of expertise, ensuring exceptional quality, reliable performance, and long-term customer satisfaction. Through integrity, innovation, and strong partnerships, we aim to support infrastructure development across Egypt and North Africa.

# About us

الهيئة القومية  
لمياه الشرب والصرف الصحي



ISO 9001  
ISO 14001  
ISO 45001

Certificate Number: 26228

CERTIFICATIONS

## Challenge

Large-diameter HDPE structured wall pipes (>1.2 m) are light, bulky, and inefficient to transport.

In mega sewerage, drainage, and water infrastructure projects:

- Truck capacity is underutilized by volume
- Logistics costs escalate disproportionately with pipe diameter
- Delivery schedules become exposed to transport constraints
- Carbon footprint increases
- Handling and damage risks rise

In remote or large-scale developments, pipe transportation can represent a material share of total installed cost, with limited opportunity for optimization once projects are underway.

## Solution

Mobile On-Site HDPE Pipe Manufacturing Facility

- Deployed within or adjacent to the project site
- Dedicated to large-diameter structured wall pipe production for the project lifecycle
- Pipes manufactured at the point of demand, eliminating long-haul transport of oversized pipes
- Production aligned with construction sequencing, improving delivery certainty
- Delivered as a turnkey, self-contained facility, including power, utilities, QA/QC, operators and installation technicians
- Operates for the project duration and is fully demobilized and relocated upon completion

Designed to comply with municipal, project, and international standards.

## Strategic Impact

- **Material cost savings at scale:** Eliminates long-haul transport of oversized pipes; logistics cost reduction can reach 20–40% for large diameters ( $\geq 1.5$  m).
- **Improved schedule certainty:** On-site production aligned with construction sequencing, reducing dependency on extended supply chains.
- **Optimized for large-diameter pipelines:** Highest impact where transport inefficiency is greatest (typically  $\geq 1.2$ – $3.0$  m diameter).
- **Lower environmental footprint:** Fewer truck movements reduce emissions and improve project-level ESG performance, with no stranded assets after completion.



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